### PATENT COOPERATION TREATY

## **PCT**

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	lcant's or agent's file	reference	FOR FURTHER A	CTION		
P1370WOD			FOR FURTHER ACTION See Form PCT/IPEA/416			
			international filing date 04.08.2004	(day/month/year)	Priority date (day/month/year) 21.08.2003	
		ification (IPC) or nati	onal classification and	IPC		
GOT	IN35/00					
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1116	SECRETARY	STATE FOR I	DEFENCE DSTL	et al.		
1.	This report is the Authority under A	international prelir Article 35 and trans	ninary examination i	report, established but according to Artic	y this International Preliminary Examining le 36.	
2.			8 sheets, including			
3.			ANNEXES, compris			
	a. ⊔ sent to the	e applicant and to t	he International Bui	reau) a total of shee	ets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic new or of the state of the s					
	sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
		9 15 004201100 2	ioting (occ ccction)	oz of the Administra	tive instructions).	
4.	This report conta	ins indications rela	ting to the following	items:		
	☑ Box No. I	Basis of the opini	on			
	☐ Box No. II	Priority				
	☑ Box No. III	Non-establishme	nt of opinion with reg	gard to novelty, inver	ntive step and industrial applicability	
	☐ Box No. IV	Lack of unity of in	vention			
	⊠ Box No. V	Reasoned statem applicability; citat	ent under Article 35 ions and explanation	(2) with regard to no	velty, inventive step or industrial tatement	
	☐ Box No. VI	Certain documen				
Box No. VII Certain defects in the						
☐ Box No. VIII Certain observations on the inter		ons on the internation	national application			
Date	of submission of the	demand		Date of completion	of this report	
		Date of completion	or me rehort			
21.06.2005				06.12.2005		
Name and mailing address of the international preliminary examining authority:			1 -	Authorized Officer		
European Patent Office - P.B. 5818 Patentlaan 2				Gertuina Paisatan,		
	NL-2280 H	IV Rijswijk - Pays Ba 0 340 - 2040 Tx: 31 6	S	Cantalapiedra,		
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003363

	Box No	o. l	Basis of the report
1.	With reg	gard nless	to the <b>language</b> , this report is based on the international application in the language in which it was otherwise indicated under this item.
	□ Thi wh	is rep iich is	port is based on translations from the original language into the following language , s the language of a translation furnished for the purposes of:
		publ	rnational search (under Rules 12.3 and 23.1(b)) lication of the international application (under Rule 12.4) rnational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have be	een 1	to the <b>elements*</b> of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>
	Descrip	otion,	, Pages
	1-44		as originally filed
	Claims,	, Nun	mbers
	1-24		as originally filed
	Drawings, Sheets		Sheets
	1/10-10	/10	as originally filed
	□ a:	sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.			mendments have resulted in the cancellation of:
			description, pages claims, Nos.
		the	drawings, sheets/figs sequence listing <i>(specify)</i> :
			y table(s) related to sequence listing (specify):
4.	had no	ot be	eport has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the ntal Box (Rule 70.2(c)).
			e description, pages e claims, Nos.
		l the	e drawings, sheets/figs e sequence listing <i>(specify)</i> :
			y table(s) related to sequence listing (specify):
	* I1	£ it	tem 4 applies, some or all of these sheets may be marked "superseded."

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		No. III Non-establishment of licability	opiı	nion with regard to novelty, inventive step and industrial		
۱.	The obvi	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ovious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,				
	☒	claims Nos. 24				
		pecause:				
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
	$\boxtimes$	no international search report has been established for the said claims Nos. 24				
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
		the written form		has not been furnished		
				does not comply with the standard		
		the computer readable form		has not been furnished		
				does not comply with the standard		
		the tables related to the nucleo not comply with the technical re	tide a equir	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
		See separate sheet for further	detai	ils		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/003363

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims 1-23

Inventive step (IS)

Yes: Claims

No: Claims

Industrial applicability (IA)

Yes: Claims

1-23

1-23

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

# Re Item IV Lack of unity of invention

This Authority considers that there are 2 inventions covered by the claims indicated as follows:

- I: Claims 1-23 directed to an apparatus for processing a fluid sample
- II: Claim 24 directed to a lid comprising a membrane

The reasons for which the inventions are not so linked as to form a single general inventive concept, as required by Rule 13.1 PCT, are as follows:

The prior art has been identified as document D2: WO 94/18565 and discloses:

An apparatus for processing a fluid sample comprising:

A platform (D2, features 14 and 15) comprising: a chamber suitable for receiving a sample (D2, feature 2);

An arm capable of being raised and lowered (D2, feature 11) and including means for removably attaching to the functional component such that said component may be raised and lowered with the arm (D2, pag 5, line 5-8); and a means for moving the platform such that any chamber or functional component may be aligned with respect to the arm (D2, pag 7, line 15-36).

It follows that the following technical feature of claims 1-23 make a contribution over the prior art and can be considered as a special technical feature within the meaning of Rule 13.2 PCT:

The platform includes a functional component, that can be grasped by the arm.

The problem solved by this special technical feature can therefore be construed as: to have the possibility of perform a plurality of operations with the same robotic arm (using the cutter or the sheath)

It follows that the following technical feature of claim 24 make a contribution over the prior

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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art and can be considered as a special technical feature within the meaning of Rule 13.2 PCT:

In that there is a lid comprising a membrane.

The problem solved by this special technical feature can therefore be construed as: to have a device for closure of a vessel.

Consequently, neither the objective problem underlying the subjects of the claimed inventions, nor their solutions defined by the special technical features allow for a relationship to be established between the said inventions, which involves a single general inventive concept.

In conclusion, the groups of claims are not linked by common or corresponding special technical features and define 2 different inventions not linked by a single general inventive concept.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-5 164 318 (MIMURA TOMONORI ET AL) 17 November 1992 (1992-11-17)
- D2: WO 94/18565 A (LABSYSTEMS OY; TUUNANEN JUKKA (FI)) 18 August 1994 (1994-08-18)
- 1)The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1 and 18 is not new in the sense of Article 33(2) PCT.

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#### Claim 1:

The document D1 discloses (the references in parentheses applying to this document):

An apparatus for processing a fluid sample comprising:

A platform (D1, feature 2) comprising: a chamber suitable for receiving a sample (D1, feature 22); and a functional component (D1, feature 9);

An arm capable of being raised and lowered (D1, feature 6) and including means for removably attaching to the functional component such that said component may be raised and lowered with the arm (D1, feature 6)); and a means for moving the platform (the platform in D1 is a carrying rotary disk, which implicitly implies that it has means to rotate the disk, and therefore for moving the platform) such that any chamber or functional component may be aligned with respect to the arm (D1, feature 2 and figures 9, where the functional component may be aligned with the arm by rotating the disk and the arm).

#### Claim 18:

The document D2 discloses (the references in parentheses applying to this document):

A method for processing a fluid sample wherein the method comprises: placing a sample comprising an analyte into a first chamber located on a platform of an apparatus (D2, feature 2 and fig 4, representing the whole platform of the apparatus); binding the analyte to a binding material to form an analyte-binding material complex (D2, pag 5, line 25-40)

lowering means for reversibly attracting said complex into said first chamber and allowing the complex to be attracted to said means (D2, pag 5, line 25-40);

raising said means from the first chamber (D2, pag 5, line 25-40);

moving said platform such that a second chamber is now aligned with the means for reversibly attracting said complex (D2, pag 7, line 15-36)

lowering said meas for reversibly attracting said complex into the second chamber and allowing the complex to detract from said means (D2, pag 7, line 15-36);

characterized in that the analyte is subjected to a physical processing step either in the first chamber or in the second chamber (D2, pag 8, line 4-6, where the first chamber or second chamber are the wells of the plates of the cassette, and the pre-heating will be

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done in those chambers).

2) Dependent claims 2-17 and 19-23 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.